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MATERIAL SAFETY DATA SHEET

I.1

PAVE BOND® AP SPECIAL
Asphalt Additive

Morton International
Specialty Chemicals Group
Industrial Chemicals and Additives
2000 West St., Cincinnati, OH 45215

Emergency Phone No. 513-733-2218
General Information 513-733-2100
MSDS Reference No. 5319
Rev. Date 11/01/89 Rev. No. 5

I. PRODUCT IDENTIFICATION

Product name: PAVE BOND® AP SPECIAL Asphalt Additive
Chemical name: Mixture
Chemical family: Aliphatic polyamines

II. HAZARDOUS CONSTITUENTS

CAS No.	Chemical	Hazard Data
*	Aliphatic polyamines	Corrosive, skin and eye
*	Oxygenate	See sec. V and sec. IX
* Confidential; product composition is a trade secret.		

III. PHYSICAL DATA

Boiling point:	230-380°C	Melting point:	Not applicable
Vapor pressure:	<1 mm @ 25°C	Vapor density (air=1):	> 3
H ₂ O solubility:	Appreciable	% volatiles by wt.:	3 @ 110°C
Viscosity:	250-850 cs @ 10	Specific gravity:	1.02 @ 100°F

Appear. & odor: Black viscous liquid with ammoniacal odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash point (method used): 230°F (Setaflash - ASTM D3278-78)
Flammable limits in air: Unknown
Extinguishing media: Dry chemical; carbon dioxide; water spray; foam
Fire fighting procedures: Self-contained breathing apparatus with full
facepiece in positive pressure mode and
impervious suit
Fire & explosion hazards: Decomposes with heat or burning and may produce
irritating or toxic vapors including caustic
amines, hydrogen cyanide and oxides of carbon &
nitrogen.

V. HEALTH HAZARD INFORMATION

Health Hazard Data

TLV: Ethylene glycol 50 ppm, 125 mg/m³, vapor, ceiling

PEL: Ethylene glycol 50 ppm, 125 mg/m³, ceiling

LD50: oral, 5100 mg/kg (rat)

dermal, 1500 mg/kg (rabbit)

LC50: Not determined

Skin Irritation Index (rabbit): 6.6; pri. irritant & corrosive

Eye Irritation Index (rabbit): Irritant; corrosive

Effects of Overexposure

Inhalation: Vapors or fumes may irritate respiratory tract.

Skin contact: Irritation, rash and possibly severe skin burns and blistering can result.
Skin absorption in sufficient amounts may produce systemic toxicity effects.

Eye contact: Will cause severe irritation and possible permanent eye injury.

Ingestion: Will cause severe irritation, burns, blistering and possible convulsions.

Chronic: Recent data indicates the oxygenate in this product is not genotoxic/mutagenic. A weak positive increased incidence of chromosomal aberrations has been previously reported. See sec. IX.
Ethylene glycol may be present at <0.4%. Ethylene glycol has been shown to cause birth defects in laboratory animals.
Products similar to PAVE BOND AP SPECIAL have been classified as skin sensitizers based on recent tests on guinea pigs.

Emergency First Aid Procedures

Eyes: Flush with water for 15 minutes. Obtain immediate medical attention.

Skin: Immediately flush with water for 15 minutes while removing contaminated clothing and shoes. Obtain medical attention.

Inhalation: Remove to fresh air. Obtain medical attention.

Ingestion: Do not induce vomiting. Obtain medical attention immediately.

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VI. REACTIVITY DATA

Stability of compound: Stable
Chemical incompatibility: Avoid strong acids and oxidizing agents.
Decomposition products: Ammonia, amines, oxides of carbon and nitrogen, and hydrogen cyanide
Hazardous polymerization: Will not occur.

VII. SPILL OR LEAK PROCEDURES

If material is spilled: Contain spilled material with sand, aggregate fines, or other absorbent. Use detergent with water for easier final cleanup. Avoid vapor inhalation or skin contact. Cleanup personnel should wear protective equipment.

Waste disposal method: Place absorbed material in an appropriate, closed container for disposal of in accordance with local, state and federal regulations. Waste containing this material may be hazardous due to high pH.*

* Refer to 40 CFR 261.22.

VIII. SPECIAL PROTECTION INFORMATION

Ventilation requirements: Use adequate ventilation to prevent vapor accumulation.

Equipment

Respiratory: If handled in a confined area, wear a NIOSH-approved amine and ammonia respiratory cartridge or NIOSH-approved air supplied breathing equipment.

Eye: Chemical goggles and face shield

Gloves: Impervious gloves

Other: Impervious suit or impervious apron

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IX. SPECIAL PRECAUTIONS

Do not take internally.

Store in cool, dry and well ventilated area.

For industrial use only

Wash thoroughly after handling.

Remove contaminated clothing immediately and launder before reuse.

Contaminated shoes and gloves should be destroyed.

The oxygenate component in this product did not produce mutagenic activity in the Ames test or a forward gene mutation assay in Chinese Hamster Ovary cells. However, a weak positive increased incidence of chromosomal aberrations in Chinese Hamster Ovary cells was detected. The clastogenic potential of the material was confirmed in vivo by a positive micronucleus assay. These weakly positive genotoxic responses make it difficult to assess the relevance of these findings to human health, however, more recent and relevant data, a bone marrow cytogenetics study in rats, did not produce any evidence of an in vivo clastogenic potential for this component and this study strongly indicates it is not genotoxic/mutagenic.

For additional information contact: Health, Safety & Environmental Department, (513) 733-2100.

"To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS."